COASTAL IMPACT ASSISTANCE PROGRAM
Jefferson Parish Project Nominee Fact Sheet

Project Title: Mississippi River Sediment Delivery at Bayou Dupont (BA-39)
Tri-Parish Sediment Delivery Project

Entity/Individual nominating the project: Jefferson Parish, Louisiana

Contact Information: Marnie Winter, Director
Jefferson Parish Department of Environmental Affairs
1221 Elmwood Park Blvd., Suite 1006
Jefferson, Louisiana 70123

(504) 736-6440
mwinter@jeffparish.net

Total CIAP Funds Requested: $ 9,000,000

Parish CIAP Funds Proposed: $ 1,000,00 (Jefferson Parish); $2,000,000 (other parishes)

State CIAP Funds Requested: $ 6,000,000

Infrastructure Funds Proposed: N/A

Description and Location of the Project: The project is located adjacent to Bayou Dupont and southeast of Cheniere Traverse Bayou in the vicinity of Ironton in Plaquemines parish and Lafitte in Jefferson Parish, Louisiana. The general area lies west of Louisiana Highway 23 and just north of the Myrtle Grove Marina within the Barataria Basin.

The project, which has received Phase 1 funding through the CWPPRA program, involves dredging sediment from the Mississippi River for marsh creation and pumping it via pipeline into an area of open water and broken marsh west of the flood protection levee. The material will spread over the project area and be contained primarily with natural land features. Some low containment levees may be necessary in limited areas; existing spoil banks will be utilized whenever possible. Containment levees will be sited to restore ridge functions. In addition to the project features included in the CWPPRA design phase, the proposed CIAP project would establish a series of approximately 40 miles of slurry pipelines with pumps and outlet units for slurry distribution to establish approximately 10,000 acres of marsh habitat across the Barataria Basin, beginning with the Bayou Dupont project in Plaquemines Parish and progressing westward to sites in Jefferson and Lafourche parishes. Pipeline locations would be established in locations selected to fortify areas close to the levee system and to restore previously land losses in critical areas along the Barataria land bridge. This project will be coordinated with minor diversion projects that will help sustain marsh/wetland areas.

A determination will be made post-construction as to whether planted or natural colonization of native vegetation is best for marsh development. Newly established ridges will be planted with woody vegetation.

Project Type: Conservation, restoration and protection of coastal area, including wetland

Project Justification: The proximity of the project to the Mississippi River presents a prime opportunity to employ a pipeline delivery system that will utilize the sediment resources from the river to restore and create wetlands. Unlike most marsh creation projects that involve borrowing fill material from adjacent shallow water areas within the landscape; this project will utilize river sediment, thus minimizing disruption of the adjacent water and marsh platform. The Bayou Dupont project represents the first example of pipeline transport of sediment from the river to build marsh as CWPPRA project. Limited, but successful, experience has been gained by the U.S. Army

Corps of Engineers through beneficial use of dredged materials. Results from the CWPPRA project should serve to demonstrate the value and efficacy of greater use of pipeline-conveyed river sediment for coastal restoration, and serve as the catalyst for establishment of a slurry distribution system for the Barataria Basin.

The project is supported by Jefferson, Plaquemines and Lafourche Parishes and by the Barataria/Terrebonne National Estuary Program.

The project is consistent with the following coastal restoration initiatives:

COAST 2050: TOWARD A SUSTAINABLE COASTAL LOUISIANA:

Coastwide Strategy:

Dedicated dredging for wetland creation
Vegetative planting
Maintain or restore ridge functions

Regional Strategy:

Maintain critical landforms – Central Basin Land Bridge
Restore and sustain marshes

LOUISIANA COASTAL AREA ECOSYSTEM RESTORATION STUDY (LCA):

Initial Near-Term Critical Restoration Features:

Marsh Restoration using long-distance conveyance of sediment

COASTAL IMPACT ASSISTANCE PROGRAM (CIAP):

Protect Critical infrastructure

Project Cost Share: State = 0 %
Parish = 0 %